

MS4 Illicit Discharge Removal Report - City of Cambridge

Location	Discharge Description	Method of Discovery	Date Discovered	Date Eliminated	Mitigation	Enforcement or Corrective Measures	Schedule of Removal	Notes	Catchment
9 Gray Gardens East	SDE conducted two dye tests at 9 Gray Gardens East in Cambridge (Sparks Area). The basement toilet tested dye in both the sewer and the drain. The dye was seen in the drain 2 minutes after it was flushed and then in the sewer about 2 minutes later. The dye was significantly brighter in the drain than it was in the sewer. A 2nd floor toilet tested not legal with the dye appearing in the drain after 2 minutes. The crew mentioned that there may have been very faint traces of dye from the 2nd floor toilet in the sewer but it was not truly distinguishable. It should be noted that the drain is at a higher elevation than the sewer.	IDDE investigation	2020.02.07	2020.03.16	Replaced sections of collapsed drain and sewer lateralst and confirm with a dye test	Not applicable	work was done to repair the laterals and connection, but confirmatory dye test is outstanding. Work was stopped due to COVID-19	Follow up CCTV confirmed collapsed sewer and drain laterals. DPW confirmed that there are cracks and breaks then eventually to a collapsed sewer lateral that starts 11 feet from sewer manhole to 16 feet to the house. The same situation exists for the drain lateral as well. Somehow the sewer and drains make their way to the system mixed. DPW authorized remedial contractor to do repairs week of 3/16 and will have chance to do a dye test before work is back filled.	Sparks Street D31
2 Hemlock St		IDDE investigation	2020.03.11		This appears to be a direct illicit connection of the sewer lateral to the main drain in the street, and will likely require re-connecting the existing building sewer lateral to the sewer main. However, due to the flow conditions observed in the sewer and drain during the dye test (drain was flowing faster than sewer), DPW will clean and CCTV the sewer between S47SMH2250 and S47SMH2510 to confirm there is no infrastructure issue first.	Not applicable	Due to COVID-19 scheduling of CCTV and follow up work has been temporarily suspended. Work will be scheduled as soon as it is safe to do so.		Sparks Street D31

Healy Street	<p>SDE conducted several dye tests on Healey St. Both 18 and 20 Healey Street tested dye in both the sewer and the drain. For both tests the dye was seen in the sewer first followed by the drain and the intensity was brighter in the sewer. Based on those test results it was assumed there may be an infrastructural issue in the street as opposed to an issue with the individual building laterals. SDE added dye directly into sewer MH S47SMH3312. The dye was seen in both the downstream sewer (S47SMH3305) and the downstream drain (D31DMH3415). The dye was brighter in the downstream sewer than it was in the downstream drain. This indicates that the sewer on Healey St is leaking into the storm drain. It should be noted that it took several hours for the dye to appear in the downstream manholes.</p>	IDDE investigation	2020.03.11	<p>This will require repairs to the sewer and drain mains in the street. City to CCTV the entire length of sewer and drain on Healy Street, which is ~370 ft of sewer (8-10”) and ~370 of drain (12-18”) to help determine the extent of work to be done.</p>	Not applicable	<p>Due to COVID-19 scheduling of CCTV and follow up work has been temporarily suspended. Work will be scheduled as soon as it is safe to do so.</p>	Sparks Street D31
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